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New Publications.

Published This Day:

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BY HENRY WARD BECKER.

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MASICK CEMENTS.—According to Bottger, these cements are mixtures of 100 parts of sand, limestone, and litharge (yellow oxide of lead), with 7 parts of boiled oil. At first the mixture has little coherence, but when pressed it gradually acquires the hardness of ordinary sandstone.

MISSOURI TIN.—Dr. T. R. Goulding of St. Louis has been experimenting with the tin ores of Missouri, for the purpose of determining the best process of reducing them. On the 15th ult. he produced the first pig of pure tin ever made in America. Its weight was 6 tons and the cost of the ore used in its production, \$100.

ALUMINUM BRONZE.—This alloy is now made in France by a process which is cheaper than the direct combination of aluminum and copper. An alloy of aluminum and cast iron—more easily obtained than pure aluminum—is melted with copper and well stirred. In the crucible the aluminum melts, the aluminum being at the bottom, and may be easily separated from the iron when cold.

PREDICTION OF TARTARIC ACID.—Messrs. Jette and Pontevres of France have prepared tartaric acid from the pressed grape skin, which is a waste product in the manufacture of wine and brandy. After treating the skins with water and other reagents, a part of the pulp is removed, and the mixture is heated until the tartaric acid in combination is set at liberty. The action of the acid on the cellulose of the pulp forms a small quantity of gummy liquor, which is then heated and a residue of tartaric acid is left. The tartaric acid is formed, which, on being subjected to concentrated sulfuric acid, yields sulphate of lime and free tartaric acid.

CROPP CURED BY SULPHUR.—The *Medical Gazette of Paris* states that M. Langanteur of Paris, observing the effect of sulphur on the cutaneous vesicles, was led to administer it in the cases of crops, rashes, &c., and the mixture is held until the sulphur is dissolved, and the mixture is set at liberty. The action of the acid on the cellulose of the pulp forms a small quantity of gummy liquor, which is then heated and a residue of tartaric acid is left. The tartaric acid is formed, which, on being subjected to concentrated sulfuric acid, yields sulphate of lime and free tartaric acid.

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